Data Dictionary for Dataset: Well Permits

Column	Column Name / Field Name	Description
A	PermitNumber	Unique identifier number of the well permit for this record and shown on well tag.
B	Reference Number	Reference number from DNREC's Online Permitting Application
C	LocalWellID	[Optional] Local identifier, or common name of the Well (eg. MW-1).
D	WellType	Type of well permitted [See Table on Page 5 below for permissible values].
E	WellStatus	Status of well permit/application [See Table on Page 5 below for permissible values].
F	URL for Permit Details	Web page link to see more details about the specific well permit, including scanned documents, if available. [Note: per 29 Del. Code §10002 (l)(17)a.2., specific location information for the following well types has been redacted: Public-Standard, Public-Miscellaneous, Industrial, Fire Protection-Standard, Fire Protection-Public, and Aquifer Storage and Recovery (ASR).]
Original Owner Information		
G	Owner	Owner of the well.
H	OwnerAddressFull	Full address of the owner of the well. Per 29 Del. Code, §10002 (l)(17)a.2., specific location information for the following well types has been redacted: Public-Standard, Public-Miscellaneous, Industrial, Fire Protection-Standard, Fire Protection-Public, and Aquifer Storage and Recovery (ASR).
I	TaxID	County tax parcel identification number for property on which the well is located. Example Parcel ID Format: New Castle: 07-008.00-033 Kent: MN-00-159.00-01-32.03.000 Sussex: 1-31-02.00-0039.01
Date of Specific Events		
J	EstConstructDate	Estimated date of construction.
K	AppRecDate	Date well application was received by DNREC.
L	LocReviewDate	Date that proposed location was reviewed for potential contaminants.
M	ProposedConstructionReviewDate	Date that the proposed construction specifications were reviewed.

N	PermitApprovalDate	Date of permit approval.
O	CompletionReportDate	Date of completion report, if received.
P	AbandonReportDate	Date of well abandonment report for sealed wells, if received.
Construction Details		
Q	TotalDepthProp	Proposed total depth of well, measured in feet below land surface.
R	TotalDepthActual	Actual depth well drilled as reported on completion report, measured in feet below land surface.
S	EstMaxCapacity	Estimated maximum capacity of the well, measured in gallons per minute.
T	EstDailyUse	Estimated daily use of water from the well measured in gallons per day.
U	MinWellDiameter	Minimum diameter of well, in inches (for most wells min and max are same).
V	MaxWellDiameter	Maximum diameter of well, in inches.
W	WellTermunusInches	Measurement, in inches, of the top of the well, whether above (+) or below grade (-).
X	WellTerminusType	Type of upper terminus unit used to connect well to water distribution system [See Table on Page 6 below for permissible values].
Y	ScreenTop	Feet below land surface of the top of the well screen.
Z	ScreenBase	Feet below land surface of the bottom of the well screen.
AA	ScreenMaterial	Material that the well screen is made of (PVC, Stainless Steel, etc.) [See Table on Page 6 below for permissible values].
AB	InnerCasingTop	Feet above or below ground surface of the top of the inner casing material.
AC	InnerCasingBase	Feet below ground surface of the base of the inner casing material.
AD	InnerCasingMaterial	The material that makes up the inner casing [See Table on Page 6 below for permissible values].
AE	GroutTop	Inches below ground surface of the top of the material used to seal the annular space of the well. (The space between the well casing and the ground)
AF	GroutBase	Feet below ground surface of the base of the material used to seal the annular space of the well. (The space between the well casing and the ground)
AG	GroutMaterial	Material used to seal the annular of the well. (The space between the well casing and the ground) [See Table on Page 7 below for permissible values].
AH	gravelTop	Feet below ground surface of the top of the gravel filter pack.

AI	gravelBase	Feet below ground surface of the bottom of the gravel filter pack.
AJ	GravelMaterial	Material used to make up the filter pack [See Table onKPage 7 below for permissible values].
AK	ProposedDrillMethod	Proposed method of drilling to create the well [See Table on Page 7 below for permissible values].
Pump & Water Level Details		
AL	PumpMaker	Brand of pump to be used.
AM	PumpIntakeSetting	Feet below land surface at which the well pump takes in water.
AN	PumpTestRate	Tested capacity of pump, measured in gallons per minute.
AO	PumpRatedCapacity	Rated capacity of pump, measured in gallons per minute.
AP	PumpTestTime	Hours that the well was tested.
AQ	PumpingWaterLevel	Depth to maximum water level during pumping, measured in feet below land surface.
AR	StaticWaterLevel	Water level when the well is not pumping, measured in feet below land surface.
AS	WaterLevelDate	Date on which water level was measured.
Additional Information		
AT	SepticPermitNumber	Permit number of any septic system on the same property, if available.
AU	ReplacedWellPermitNumber	If a replacement well, permit number of the well that was replaced, if known.
AV	WellAbandonmentReason	Reason well was abandoned and sealed (eg. No water, contamination, etc.), if known.
AW	WellComments	General comments on this record generated during processing and review.
Contractor Information		
AX	LicenseNumber	License number of contractor or business installing the well.
AY	WellContractor	Name of contractor or business installing the well.
AZ	wellauthcode	Authorization code for well-drilling activity to create the permitted well.
Location Information		[Note: Per 29 Del. Code, §10002 (l)(17)a.2., specific location information for the following well types has been redacted: Public-Standard, Public-Miscellaneous, Industrial, Fire Protection-Standard, Fire Protection-Public, and Aquifer Storage and Recovery (ASR).]
BA	X	Easting (X) map coordinate of well location, in Delaware State Plane Coordinate NAD 1983 Meters.
BB	Y	Northing (Y) map coordinate of well location, in Delaware State Plane Coordinate NAD 1983 Meters.

BC	Latitude	Latitude of well location in Decimal Degrees (WGS 84).
BD	Longitude	Longitude of well location in Decimal Degrees (WGS 84).
BE	LocationMethod	Method used to determine location of well specified in the X, Y, or Lat/Long fields [See Table on Page 8 below for permissible values]. [Note: Wells permitted prior to June 1975 may not have a recorded (Lat/Long) location other than the address]
BF	County	County of well location (New Castle, Kent, Sussex)
BG	Watershed	Watershed in which well is located [See Table on Page 8 below for permissible values].
BH	Basin	Major Drainage basin in which well is located (e.g. Delaware River, Chesapeake Bay, Atlantic Ocean) [See Table on Page 9 below for permissible values].
Well Attributes (Yes/No)		
BI	Potable	Is the intended use for the water from this well for potable consumption? (Yes/No)
BJ	TestTemp	Is well a temporary test well? (Yes/No)
BK	GMZ	Is well in an established Groundwater Management Zone (GMZ)? (Yes/No)
BL	WellPit	Is well terminus housed in a pit or vault? (Yes/No)
BM	Replacement	Is the well a replacement well? (Yes/No)
BN	AllocReview	Does well require a water allocation review? (Required for greater than 50,000 gallons per day) (Yes/No)
BO	RequiresAllocPermit	Does the well require a water allocation permit? (Yes/No)
BP	Sampled	Has well been sampled? (Yes/No)
BQ	CPCN	Is property covered by a Certificate of Public Convenience and Necessity (CPCN) issued by the Public Services Commission? (Yes/No)
BR	AgPrecDistrict	Is well in an Agricultural Preservation District? (Yes/No)
BS	Floodplain	Is well located in a floodplain? (Yes/No)
BT	SmallLot	Is well on a small lot (<0.5 acres)? (Yes/No)
BU	Injection	Will this well be used to inject anything into the subsurface? (Yes/No)
BV	PCIV	Are there potential sources of contamination in the vicinity (1,000 feet of the well location)? (Yes/No)
BW	Emergency	Was the well permit issued in response to an emergency situation? (Yes/No)
BX	Confined	Is the well in a confined aquifer? (Yes/No)
BY	Reviewable	Does the well permit require additional review? (Yes/No)

BZ	Existing	Is there an existing well on the property? (Yes/No)
CA	RetainWell	Was this well replaced and retained for other uses. (Y or 1 = Yes. N or 0 = no)
CB	Geocoded Location	This is a system generated field created from the Latitude and Longitude fields so that the data can be mapped.

Well Type

Agricultural - Standard
Agricultural - Within CPCN
Anode Cathodic Protection - Deep
Aquifer Storage & Recovery - Standard
Dewater - Standard
Domestic - Standard
Fire Protection - Public
Fire Protection - Standard
Geothermal - Closed Loop
Geothermal - Direct Exchange
Geothermal - Recharge
Geothermal - Supply
Industrial - Standard
Irrigation - Standard
Miscellaneous - Standard
Monitor - Direct Push
Monitor - Standard
Monitor - Zone of Interest
Observation - Standard
Public - Miscellaneous
Public - Standard
Remediation I - Injection
Remediation R - Recovery
Soil Borings - Standard
Well Construction - Standard

Well Status

Active
Completed
Pending External
Pending Hydro
Issued
Rejected
Well Abandoned
On Hold
Pending

Reclassified
Voided
Withdrawn
Permit Expired

Well Terminus Type

None
Pitless Adaptor
Pit
Pad Mount
Standard T
Other

Screen Material

Concrete
Galvanized
Grouted
HDPE
None
Other
PFTE (Teflon)
PVC
Rock
Stainless Steel
Steel
Unknown

Casing Material

Brick
Concrete
Copper
Galvanized
HDPE
None
Other
PTFE (Teflon)
PVC
Stainless Steel
Steel
Unknown

Grout Material

Bentonite
Bentonite Pellets
Bentonite/Cement Mixture
Cuttings
Gravel
Grouted
Natural
Neat Cement
None
Other
PVC
Unknown

Gravel Material

Bentonite
Bentonite Pellets
Bentonite/Cement Mixture
Cuttings
Gravel
Grouted
Natural
Neat Cement
None
Other
Unknown

Drilling Method

Air Rotary
Bored
Cable Tool
Dug
Augered
Geo-Probe
Hydropunch
Jetted
Mud Rotary
CPT (Cone Penetrometer)
Other
Air Percussion
Reverse Rotary
Vibracore
Unknown
Driven
Washed

Location Method

Address Matching-Block Face
Address Matching-House Number
Address Matching-Street Centerline
Classical Surveying Techniques
GIS High Accuracy Interpolation
GPS Carrier Phase Static Relative Position
GPS Code (Pseudo Range) Standard Position (SA On)
GPS-Differentially Corrected
GPS-Survey Grade
GPS-Uncorrected (recent)
GPS-Unspecified
Interpolation-Other
Map Interpolation-Other
Photo Interpolation-Other
Photo Interpolation-1992 Orthophoto
Photo Interpolation-2007 Orthophoto
Photo Interpolation-2017 Orthophoto
Satellite Photo Interpolation-Other
Unknown

Watershed

Appoquinimink River
Army Creek
Assawoman
Atlantic Ocean
Blackbird Creek
Bohemia Creek
Brandywine Creek
Broad Creek
Broadkill River
Buntings Branch
C & D Canal East
C & D Canal West
Cedar Creek
Chester River
Choptank River
Christina River
Deep Creek
Delaware Bay
Delaware Estuary
Delaware River
Dragon Run Creek
Elk Creek
Gravelly Branch
Gum Branch
Indian River
Indian River Bay
Iron Branch
Leipsic River
Lewes-Rehoboth Canal
Little Assawoman
Little Creek
Marshyhope Creek
Mispillion River
Murderkill River
Naamans Creek
Nanticoke River
Perch Creek
Pocomoke River
Red Clay Creek
Red Lion Creek
Rehoboth Bay
Sassafras River
Shellpot Creek
Smyrna River
St. Jones River
White Clay Creek
Wicomico

Basin

Atlantic Ocean
Chesapeake Bay
Delaware Bay
Delaware Estuary
Inland Bays/Atlantic Ocean
Piedmont